

ALIGNMENT WITH SEQ ID NO: 1
ARAP ET AL.

ABG77468

ID ABG77468 standard; peptide; 14 AA.

XX

AC ABG77468;

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DT 05-NOV-2002 (first entry)

XX

DE Targetting peptide selective for human organ, tissue or cell type #1.

XX

KW Human; cytostatic; antiinflammatory; antidiabetic; cardiovascular;

KW immunomodulator; antibacterial; antiviral; gene therapy; cancer;

KW arthritis; diabetes; inflammatory disease; atherosclerosis;

KW autoimmune disease; bacterial infection; viral infection;

KW cardiovascular disease; degenerative disease.

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OS Homo sapiens.

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PN V0200220723-A2.

XX

PD 14-MAR-2002.

XX

PF 07-SEP-2001; 2001WD-US028044.

XX

PR 08-SEP-2000; 2000US-0231266P.

PR

17-JAN-2001; 2001US-00765101.

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PA (TEXA) UNIV TEXAS SYSTEM

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PI Arap W Pasqualini R;

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DR VPI; 2002-599247/64.

XX

PT New targeting peptides identified by phage display, useful for treating a

PT disease state, e.g. cancer, diabetes, inflammatory disease,

PT atherosclerosis, autoimmune disease, bacterial or viral infection or

PT cardiovascular disease.

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PS Claim 24; Page 113; 269pp; English.

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CC The invention describes an isolated peptide of 100 amino acids or less in

CC size. The peptide is useful for treating a disease state, e.g. cancer,

CC arthritis, diabetes, inflammatory disease, atherosclerosis, autoimmune

CC disease, bacterial infection, viral infection, cardiovascular disease or

CC degenerative disease. This sequence represents a human targeting peptide

CC selective for human organs, tissues or cell types

XX

SQ Sequence 14 AA;

Query Match 100.0% Score 62; DB 5; Length 14;

Best Local Similarity 100.0% Pred. No. 0.015;

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KLAKLAKKLAKLAK 14

Db 1 KLAKLAKKLAKLAK 14

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Untitled

ALIGNMENT WITH SEQ ID NO: 34
ARAP ET AL.

ABG77616

ID ABG77616 standard; peptide; 7 AA.

XX

AC ABG77616;

XX

DT 05-NOV-2002 (first entry)

XX

DE Targetting peptide selective for human organ, tissue or cell type #149.

XX

KW Human; cytostatic; antiinflammatory; antidiabetic; cardiovascular;

KW immunomodulator; antibacterial; antiviral; gene therapy; cancer;

KW arthritis; diabetes; inflammatory disease; atherosclerosis;

KW autoimmune disease; bacterial infection; viral infection;

KW cardiovascular disease; degenerative disease.

XX

OS Homo sapiens.

XX

PN VC200220723-A2.

XX

PD 14-MAR-2002.

XX

PF 07-SEP-2001; 2001WD-US028044.

XX

PR 08-SEP-2000; 2000US-0231266P.

PR

PR 17-JAN-2001; 2001US-00765101.

XX

PA (TEXA) UNIV TEXAS SYSTEM

XX

PI Arap W Pasqualini R;

XX

DR WPI; 2002-599247/64.

XX

PT New targeting peptides identified by phage display, useful for treating a

PT disease state, e.g. cancer, diabetes, inflammatory disease,

PT atherosclerosis, autoimmune disease, bacterial or viral infection or

PT cardiovascular disease.

XX

PS Claim 16; Fig 2A; 269pp; English.

XX

CC The invention describes an isolated peptide of 100 amino acids or less in

CC size. The peptide is useful for treating a disease state, e.g. cancer,

CC arthritis, diabetes, inflammatory disease, atherosclerosis, autoimmune

CC disease, bacterial infection, viral infection, cardiovascular disease or

CC degenerative disease. This sequence represents a human targeting peptide

CC selective for human organs, tissues or cell types

XX

SQ Sequence 7 AA;

Query Match 100.0% Score 30; DB 5; Length 7;

Best Local Similarity 100.0% Pred. No. 2.9e+06;

Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy

1 FRAGGS 6

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Db

2 FRAGGS 7

ALIGNMENT WITH SEQ ID NO: 1
ELLERBY ET AL.

AAB21900

ID AAB21900 standard; peptide; 14 AA.

XX

AC AAB21900;

XX

DT 22-MAR-2001 (first entry)

XX

DE Antimicrobial pro-apoptotic peptide #1.

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KW Cytostatic; homing pro-apoptotic conjugate; tumour; antimicrobial;
KW breast; prostate; melanoma; cancer; Kaposi's sarcoma; amphotropic;
KW alpha-helix.

XX

OS Unidentified.

XX

FH Key Location/Qualifiers

FT Masc-difference 1..14

FT

XX /note= "Preferably D-form residues"

PN WC00042973-A2.

XX

PD 27-JUL-2000.

XX

PF 21-JAN-2000; 2000WD-US001602.

XX

PR 22-JAN-1999; 99US-00235902.

XX

PA (BURN-) BURNHAM INST.

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PI Ellerby HM, Bredesen DE, Pasqualini R, Ruoslahti E;

XX

DR WPI; 2000-499174/44.

XX

PT Homing pro-apoptotic conjugate comprising a tumor homing molecule that
PT selectively homes to a mammalian cell type or tissue linked to an
PT antimicrobial peptide, useful for the treatment of prostate cancer.

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PS Claim 4; Page 104; 118pp; English.

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CC The present invention relates to homing pro-apoptotic conjugates,
CC comprising of a tumor homing molecule that selectively homes to a
CC mammalian cell type or tissue, linked to an antimicrobial peptide. The
CC homing pro-apoptotic conjugates are selectively internalised by the
CC mammalian cell type or tissue and exhibits high toxicity, especially to
CC angiogenic vasculature. The antimicrobial peptide has low mammalian cell
CC toxicity when not linked to the tumor homing molecule. The conjugates are
CC useful for the treatment of cancer e.g. Kaposi's sarcoma, breast and
CC prostate cancer or melanoma. The present sequence is one such
CC antimicrobial peptide, which can be conjugated to a homing peptide to
CC make the homing pro-apoptotic conjugates of the present invention. The
CC present sequence has an amphotropic alpha-helical structure

XX

SQ Sequence 14 AA;

Query Match 100.0% Score 62; DB 3; Length 14;
 Best Local Similarity 100.0% Pred. No. 0.015;
 Matches 14; Conservative 0; M smatches 0; Indels 0; Gaps 0;

Qy 1 KLAKLAKKLAKLAK 14
 Db 1 KLAKLAKKLAKLAK 14

ALIGNMENT WITH SEQ ID NO: 30
 THAKUR ET AL.

ID AAU97785 standard; peptide; 4 AA.
 XX
 AC AAU97785;
 XX
 DT 07-OCT-2002 (first entry)
 XX
 DE Tumour specific peptide sequence #1.
 XX
 KW Tumour imaging; radiodiagnosis; tumour; cancer; breast; ovary; prostate;
 KW endometrium; bladder; lung; oesophagus; colon; pancreas; brain;
 KW liver metastasis; neuroendocrine tumour; carcinoma.
 XX
 OS Unidentified.
 XX
 FH Key Location/Qualifiers
 FT Modified-site 1
 FT /label= OTHER
 FT /note= "OTHER= Optionally labelled with technetium-99m"
 FT Masc-difference 2
 FT /note= "D-form residue"
 FT Modified-site 4
 FT /label= OTHER
 FT /note= "OTHER= Optionally linked with 4-aminobutyric
 FT acid"
 XX
 PN US6395255- B1.
 XX
 PD 28- MAY- 2002.
 XX
 PF 15- JUN- 1999; 99US- 00333842.
 XX
 PR 15- JUN- 1998; 98US- 0089364P.
 XX
 PA (UYJE-) UNIV JEFFERSON THOMAS.
 XX
 PI Thakur ML;
 XX
 DR VPI; 2002- 556090/ 59.
 XX
 PT Compositions, useful as radiodiagnostic agent for imaging tumors,
 PT comprises tumor specific sequence linked to radionuclide moiety.
 XX
 PS Claim 7; Col 17; 17pp; English.
 XX
 CC The invention relates to a composition comprising a tumour specific
 CC sequence linked to a radionuclide moiety. A reagent for radiolabelling a

Untitled

CC tumour imaging agent comprises four amino acids, which covalently link
 CC the radionuclide to the amino group, complexed with a tumour specific
 CC sequence and enables the reagent to bind to a tumour. The composition is
 CC useful as a radiodiagnostic agent for imaging tumours (such as breast,
 CC ovarian, endometrial, prostate, bladder, lung, oesophageal, colonic and
 CC pancreatic cancers and neuroendocrine and brain tumours), liver
 CC metastases, and carcinoids in mammals. This sequence represents a
 CC radionuclide moiety used in the scope of the invention

XX

SQ Sequence 4 AA;

Query Match	100.0%	Score 16;	DB 5;	Length 4;
Best Local Similarity	100.0%	Pred. No. 2.9e+06;		
Matches 3;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

Qy 1 AGG 3

Db 2 AGG 4